

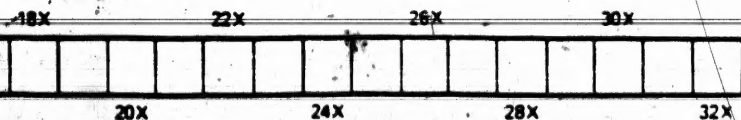
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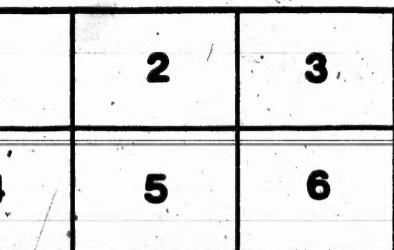
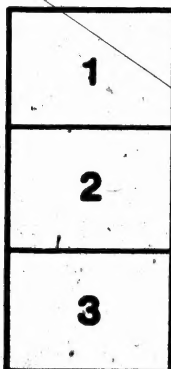
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illustrent la méthode.



1893 . . . 1894

PRICE LIST

CANADIAN GENERAL ELECTRIC CO.
LIMITED

INSULATED WIRES . .
CORDS, AND CABLES

.. MANUFACTURERS OF ..

.. EVERY DESCRIPTION OF INSULATED WIRE... ..

85 TO 71 FRONT ST.

TORONTO, ONT.



U.S. Rubber General Wire
Rubber General and Generalized Cable
When You Are Looking
For Wire - Rubber Wire
Please Look For Rubber General Wire
and Generalized Cable
in the U.S. Rubber General Wire
and Generalized Cable
Manufacturing Plant

Double Braided and Compounded

U. S. S. No.	Price Per Pound.	Pounds per 1000 Feet.
0000	74	745
000	50	500
00	40	400
0	35	375
	30	350
	25	325
	20	300
	15	275
	10	250
	5	225
	0	200
		175
		150
		125
		100
		75
		50
		25
		0

TABLE

NAME	RANK	REGIMENT
JAMES H. BROWN	CAPTAIN	1ST REGT. INF.
JOHN A. SMITH	MAJOR	2ND REGT. INF.
WILLIAM D. JONES	LIEUTENANT	3RD REGT. INF.
THOMAS E. WHITE	CAPTAIN	4TH REGT. INF.
CHARLES F. GREEN	MAJOR	5TH REGT. INF.
HENRY G. BLACK	LIEUTENANT	6TH REGT. INF.
EDWARD K. RED	CAPTAIN	7TH REGT. INF.

WEATHERPROOF WIRE

For Close Wiping

Size 0000 to 2 1/2 x 2 1/2.

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TREE WIRE

Triple Braided and Compounded

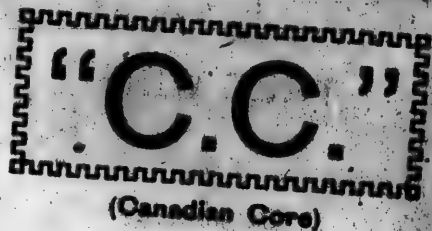
B. & S.	Per Pound.	Pounds per 1000 feet.
No. 0000	Write for latest quotations.	760
000		610
00		510
0		400
1		333
2		283
3		243
4		214
5		193
6		173
7		153
8		133
9		113
10		103
11		93
12		83
13		73
14		63
15		53
16		43
17		33
18		23

TREE WIRE

(Stranded)

S. S. & G.	Lbs. per 1000 feet.	Per 1000 feet.
No. 0000	858	\$322 10
000	682	258 16
00	552	213 16
0	455	179 20
1	364	150 18
2	298	121 77
3	220	86 00
4	175	74 59
5	151	62 42
6	130	52 68
7	107	44 32
8	80	37 24
9	69	34 25
10	63	29 96

Discount per cent.



We beg to draw attention to the
merits of our

SOLID CORE RUBBER-COVERED WIRE

For Interior Wiring . . .
and use in Damp Locations

This wire has the purest and most homogeneous insulation of
rubber-covered wire in the market.

We do not aim to produce a cheap and consequently an inferior
insulation, but we have spared no expense towards the
production of a high grade of wire at a low price. We use
"recovered" rubber or other refuse stock, but only a
rubber compound.

Send sample order and test the insulation. Prices lower than
any like grade.

SEE PRICE LIST ON PAGE 17

C.C. SOLID CORE RUBBER COVERED WIRE

Price List subject to change without notice

No. o B. & S., braided, per 100 feet.....				\$29 40
1	11	11	11	21 00
2	11	11	11	16 25
3	11	11	11	13 35
4	11	11	11	11 50
5	11	11	11	10 25
6	11	11	11	8 77
8	11	11	11	5 43
10	11	11	11	4 60
12	11	11	11	3 40
14	11	11	11	2 25
16	11	11	11	1 83
18	11	11	11	0 73

FORGET TO THE FOLLOWING DISCOUNTS FOR CASH :

For any one order amounting to \$				\$5 00.....	2
50	11	11	11	50 00.....	0
75	11	11	11	100 00.....	0
100	11	11	11	250 00.....	0
150	11	11	11	500 00.....	0
200	11	11	11	1,000 00.....	2

"C.C." means "Canadian Core."

FLEXIBLE CORDS

Cotton

No. 20 B. & S.	\$ 7 00 per 100 yards
18 "	9 00 "
16 "	12 00 "
14 "	21 00 "
12 "	32 00 "

Worsted

No. 20 B. & S.	\$ 7 00 per 100 yards
18 "	9 00 "
16 "	12 00 "
14 "	21 00 "
12 "	32 00 "

Silk

No. 20 B. & S.	\$12 00 per 100 yards
18 "	16 00 "
16 "	19 00 "
14 "	29 00 "
12 "	40 00 "

Discount... **30** ... per cent.

We can furnish Non-Inflammable Cord or Rubber Cord at above prices. Unless stated on order we shall furnish our Standard Rubber Cord.

RDS

MAGNET WIRE

Cotton Covered

B. & S.	Single, per lb.	Double, per lb.
No. 0000 to 0	44c.	45 c.
1 to 4	43c.	45 c.
5 to 6	44c.	45 c.
7 to 8	44c.	47 c.
9 to 10	46c.	48 1/2 c.
11 to 12	48c.	53 c.
13 to 14	54c.	58 c.
15 to 16	56c.	60 c.
17 to 18	59c.	65 1/2 c.
19	64c.	71 1/2 c.

Discount... 10.... per cent.

20	\$ 0 64	\$0 71 1/2
21	0 70	0 88
22	0 76	0 95
23	0 83	1 05
24	0 90	1 14
25	1 00	1 27
26	1 10	1 38
27	1 23	1 57
28	1 35	1 69
29	1 50	1 89
30	1 65	2 07
31	1 80	2 23
32	1 95	2 38
33	2 10	2 55
34	2 25	3 13
35	2 40	3 30
36	2 55	3 48
37	3 10	4 05
38	3 25	4 25
39	3 40	4 45
40	3 55	4 65
41	4 10	4 85
42	4 25	5 05
43	4 40	5 25
44	4 55	5 45
45	5 10	5 65
46	5 25	5 85
47	5 40	6 05
48	5 55	6 25
49	6 10	6 45
50	6 25	6 65

MAGNET WIRE

Silk Covered

B. & S.	Single, per lb.	Double, per lb.
No. 16	\$ 1 12	\$ 1 53
17	1 12	1 53
18	1 13	1 57
19	1 15	1 57
20	1 18	1 61
21	1 20	1 63
22	1 30	1 76
23	1 42	1 93
24	1 56	2 13
25	1 87	2 48
26	2 10	2 88
27	2 25	3 07
28	2 38	3 23
29	2 75	3 70
30	2 95	4 00
31	3 23	4 40
32	3 45	4 53
33	3 90	5 10
34	4 10	5 30
35	5 88	7 18
36	7 00	8 38
37	11 00	14 02
38	13 00	16 30
39	15 00	18 00
40	20 00	23 00

Discontinued

30

E.

GERMAN SILVER WIRE

Double, per lb.	B. & S. G.	Bare *	Single, per lb. Cotton	Double, per lb. Cotton
\$ 1 53	14 to 19	\$1 34	\$ 1 40	\$ 1 70
1 53	20	1 58	1 42	1 74
1 57	21	1 64	1 44	1 75
1 57	22	1 80	1 52	1 83
1 61	23	1 80	1 63	1 98
1 63	24	1 90	1 71	2 09
1 76	25	2 00	1 84	2 26
1 93	26	2 40	2 03	2 48
2 13	27	2 60	2 23	2 73
2 48	28	2 80	2 45	2 98
2 88	29	3 10	2 60	3 13
3 07	30	3 50	2 84	3 38
3 23	31	3 90	3 09	3 66
3 76	32	4 70	3 59	4 21
4 06	33	5 20	3 96	4 64
4 40	34	5 90	4 61	5 44
4 53	35	7 30	5 01	5 69
5 10	36	13 00	8 09	8 88
5 30	37	23 00	13 00	13 75
7 38	38	36 00	24 00	27 00
8 88	39		27 00	30 00
12 62	40		30 00	33 00
14 28				
15 00				
22 00				

Discount **30** per cent.

GERMAN SILVER WIRE

Silk Covered

H. & S. G.	Single, per lb.	Double, per lb.
14 to 19	\$ 1 85	\$ 2 35
20	1 88	2 43
21	1 93	2 45
22	2 00	2 64
23	2 21	2 87
24	2 37	3 08
25	2 65	3 48
26	3 08	3 93
27	3 23	4 29
28	3 42	4 43
29	3 85	5 00
30	4 14	5 23
31	4 52	5 51
32	4 94	6 20
33	5 40	6 55
34	5 84	7 39
35	7 52	9 41
36	10 00	11 75
37	18 50	24 00
38	28 00	35 00
39	30 00	35 00
40	45 00	50 00

Discount per cent.

WHITE DUPLEX FIXTURE WIRE

Trade No.	B. & S.	Ampere Capacity	Outside Diameter	Per 100 feet
1200	14	15	.218	\$7 25
1201	16	10	.218	6 55
1202	18	5	.218	5 80
	20			7 25

Discount **20** per cent.

ANNUNCIATOR WIRE

B. & S. Gauge	Price per lb.	Approx. length per lb.
12 to 15	\$0 90	40 to 60 feet
16 to 19	94	105 to 150 feet
20 to 22	98	225 to 250 feet
23 to 24	1 02	

Discount **50** per cent.

OFFICE WIRE

B. & S. Gauge	Price per lb.	Approx. length per lb.
12 to 15	\$0 94	35 to 55 feet
16 to 19	98	95 to 140 feet
20 to 22	1 02	155 to 200 feet

Discount **50** per cent.

GALVANIZED IRON WIRE

Bare

Nos. 8 to 19, Imperial Wire Gauge.....per cwt.				\$5.60
"	8,	"	"	5.25
"	9,	"	"	6.10
"	10,	"	"	6.30
"	11,	"	"	6.70
"	12,	"	"	6.90
"	13,	"	"	7.30
"	14,	"	"	7.90
"	15,	"	"	8.25
"	16,	"	"	8.90
"	17,	"	"	9.30
"	18,	"	"	9.70
"	19,	"	"	10.00

Discount 30.....per cent.

TELEGRAPH AND TELEPHONE WIRE

Nos. Imperial Gauge	E. B. B. per 100 lbs.	E. B. per 100 lbs.	Steel per 100 lbs.
4 to 6	\$11.00	\$10.00	\$9.00
7 to 9	11.40	10.40	9.40
10	11.70	10.70	9.70
11	12.00	11.00	10.00
12	12.50	11.50	10.50

Discount.....per cent.

TROLLEY WIRE

Hard and Soft Drawn Copper.

B. & S. Gauge, Nos. 6 to 8.....price per lb. \$0 29
 " " " 9 to 12....." 30

FUSE WIRE

Our fuse wire is manufactured expressly for us, is guaranteed accurate, and is submitted to a series of careful tests before being offered to the public.

		Price per lb.	Price per ft.
Amps.			
1	.....	\$3 40	\$0 01
2	.....	2 40	1 1/2
4	.....	2 40	2
5	.....	2 40	2 1/2
6	.....	2 40	3
8	.....	2 40	3 1/2
10	.....	2 00	4
15	.....	2 00	5
20	.....	2 00	6
25	.....	2 00	8
30	.....	2 00	10
40	.....	2 00	15
50	.....	2 00	20
60	.....	2 00	25
75	.....	2 00	30
100	.....	2 00	35
125	.....	1 80	45
150	.....	1 80	60
175	.....	1 80	70
200	.....	1 80	80

ELECTRIC LIGHT AND



B. & S. G. No.	Area Circular Mils.	Nearest Approx. Birmingham Wire Gauge No.	Thickness in In.	Approx. Diameter of Cable Mils.	Approx. Wt. per 1000 feet.	Price per 100 ft. of one conductor cable.
20	1021	21—	16	145	69	84 80
19	1252	20+	16	150	78	4 80
18	1624	19+	31	180	98	5 50
17	2048	18½+	31	185	108	6 25
16	2586	18+	38	226	170	6 72
15	3257	17—	38	240	180	7 68
14	4107	16—	47	270	212	8 64
13	5178	15—	47	275	222	9 60
12	6530	14—	47	300	270	11 52
11	8284	13½+	47	310	280	12 75
10	10581	12½+	63	365	345	14 40
9	13094	11½+	63	380	390	16 32
8	16509	10½+	70	425	540	19 20
7	20816	9—	94	490	685	24 00
6	26250	8—	94	566	818	28 32
5	33102	7—	94	595	891	31 20
4	41742	6+	94	625	969	34 80
3	52634	4—	94	655	1052	38 00
2	66173	3—	94	690	1166	44 00
1	83604	2+	94	720	1251	50 40

For Double Conductor Cable Double List Prices.

ND

POWER CABLE

For Low Tension Currents

Lead Encased

2 per
ft. of
conductor
lbs.80
80
30
35
72
68
64
60
52
75
40
32
20
00
32
20
80
90
00
40

B. & S. G. No.	Area Circular Mils.	Nearest Approx. Turns per Wire Gauge No.	Thick- ness in inches	Approx. Diameter of Cable Mils.	Approx. Lbs. per 100 feet.	Price per 100 ft. of conductor cable.
0	105594	0 1/2 +	94	815	1772	\$64 80
08	133079	00 1/2 +	94	866	1911	74 40
008	167805	000 1/2 +	94	949	2194	86 40
0008	211608	0000 +	94	985	2410	100 80
.....	250000	.....	94	1080	2611	113 60
.....	300000	.....	94	1065	2857	128 00
.....	350000	.....	94	1095	3083	144 00
.....	400000	.....	94	1125	3306	160 00
.....	450000	.....	94	1190	3563	175 00
.....	500000	.....	94	1230	3820	190 00
.....	550000	.....	94	1250	4075	207 00
.....	600000	.....	94	1315	4333	220 00
.....	650000	.....	94	1375	4575	237 00
.....	700000	.....	94	1410	4818	253 00
.....	750000	.....	94	1440	5066	270 00
.....	800000	.....	94	1470	5308	284 00
.....	850000	.....	94	1530	5539	300 00
.....	900000	.....	94	1565	5779	320 00
.....	950000	.....	94	1605	6017	330 00
.....	1000000	.....	94	1635	6262	345 00

For Standard Conductor Cable Specify List Prices

ELECTRIC LIGHT AND



Copper Conductors

1 lb. Insulation for gas to gas Weld.

B. & S. G.	Area. Circular Mils. A	Diameter of Bare Copper Mils.	Weight per 100 Ft.	Diameter Mils.	Price per 100 feet
14	4107	64	303	465	\$13 44
13	3178	78	416	473	13 56
12	2530	81	398	487	14 20
11	2034	91	368	495	14 30
10	1681	103	333	506	14 00
9	13094	114	680	515	20 65
8	10409	125	699	532	22 00
7	8052	163	777	640	26 45
6	6230	189	923	665	30 70
5	53103	219	992	686	32 00
4	41735	230	1066	698	37 20
3	32634	281	1146	719	41 30
2	26333	313	1238	739	46 40
1	20304	344	1340	761	51 20
0	16862	376	1455	878	67 20
50	133899	428	2079	923	76 80
500	167605	580	2329	3000	80 30
0000	211600	547	2565	3047	105 30
.....	250000	594	2768	3090	115 30
.....	300000	635	3001	1125	130 30
.....	350000	696	3240	1156	140 30
.....	400000	686	3481	1188	161 30
.....	450000	733	3723	1240	177 30
.....	500000	781	3968	1281	193 30
.....	550000	828	4210	1323	209 30
.....	600000	875	4453	1375	224 30
.....	650000	923	4699	1423	240 30
.....	700000	969	4946	1470	256 30
.....	750000	1028	5192	1520	272 30
.....	800000	1045	5443	1545	288 30
.....	850000	1090	5692	1590	304 30
.....	900000	1135	5943	1635	320 30
.....	950000	1180	6195	1680	336 30
.....	1000000	1225	6448	1725	352 30

ND

POWER CABLE

For High Tension Currents

Lead Encased

For Double Conductor Cable Double List Prices

3-32 in. Insulation for 1000 to 1200 Volts.

Weight 1000 ft. lbs.	Diameter Mils.	Price per 100 ft.
438	325	815 40
480	335	10 10
510	350	18 24
557	358	19 20
602	368	20 84
690	380	22 40
721	394	24 00
777	403	26 60
1001	468	33 10
1103	719	36 00
1180	750	39 60
1265	781	43 70
1358	813	49 00
1456	844	57 60
2031	938	70 40
2208	964	80 00
2456	1065	92 50
2700	1110	106 00
2916	1150	118 00
3153	1188	134 40
3387	1220	150 40
3643	1296	165 60
3920	1300	180 80
4195	1344	196 80
4487	1380	211 20
4787	1456	228 00
5090	1500	244 80
5408	1550	261 60
5741	1600	277 20
6087	1670	302 80
6444	1755	327 20
6810	1800	344 00
7195	1875	358 40
7590	1920	375 20

6-32 in. Insulation for 2000 to 2500 Volts.

Weight 1000 ft. lbs.	Diameter Mils.	Price per 100 ft.
530	500	815 00
543	500	17 60
595	512	20 20
725	520	21 45
740	530	23 88
777	545	24 33
809	556	26 12
975	725	31 00
1144	750	36 00
1218	781	38 80
1298	813	43 72
1384	844	48 40
1482	875	51 70
1595	906	60 00
2188	1080	73 82
2305	1047	81 58
2625	1125	96 00
2860	1172	110 40
3084	1215	122 40
3318	1260	138 10
3573	1280	154 60
3829	1315	170 00
4086	1360	185 00
4343	1406	202 00
4601	1453	218 00
4860	1500	234 00
5120	1550	250 00
5381	1595	267 00
5642	1642	282 00
5903	1670	298 00
6165	1715	312 00
6429	1750	329 00
6692	1780	343 40
6956	1815	358 20

**BUNCHED**

fg Wire Telegraph

Price pr 100 ft. of Cable**HEAVY LEAD FOR UNDERGROUND USE.**

No. of Conductors and Form of Cable.	BROWN AND SHARPE GAUGE NO.					
	12	14	16	18	20	22
2 Flat.....	20 00	15 00	12 50	10 65	9 50	9 00
3 ".....	26 25	21 25	17 50	15 65	13 75	12 50
3 Clover Leaf.	26 25	21 25	17 50	15 65	13 75	12 50
3 Round.....	26 25	21 25	17 50	15 65	13 75	12 50
4 Square.....	31 25	26 25	21 25	18 75	16 25	15 00
4 Flat.....	31 25	26 25	21 25	18 75	16 25	15 00
4 Round.....	31 25	26 25	21 25	18 75	16 25	15 00
5 Square.....	36 25	32 00	25 00	21 25	18 75	17 50
5 Flat.....	36 25	32 00	25 00	21 25	18 75	17 50
5 Round.....	36 25	32 00	25 00	21 25	18 75	17 50
6 Flat.....	41 25	32 50	27 50	24 00	21 25	18 75
6 Round.....	41 25	32 30	27 50	24 00	21 25	18 75
7 Flat.....	46 25	35 00	32 00	26 25	22 50	20 00
7 Round.....	46 25	35 00	32 00	26 25	22 50	20 00
8 ".....	51 25	37 50	32 50	29 00	24 00	21 25
10 ".....	65 75	52 50	36 25	31 25	26 25	24 00
15 ".....	90 00	69 00	51 25	45 00	34 00	31 25
20 ".....	110 00	84 00	66 00	56 00	40 00	36 25
25 ".....	130 00	99 00	80 00	65 00	46 00	41 25
30 ".....	148 00	114 00	93 00	71 00	52 50	46 25
35 ".....	167 00	129 00	105 00	77 00	59 00	51 25
50 ".....	218 00	178 00	140 00	102 00	75 00	65 00
75 ".....	.....	224 00	187 50	134 00	105 00	89 00
100 ".....	.....	270 00	225 00	161 00	133 00	124 00
125 ".....	.....	.....	.....	195 00	157 00	133 00
150 ".....	.....	.....	.....	.....	178 00	151 00
175 ".....	.....	.....	.....	.....	196 00	170 00
200 ".....	.....	.....	.....	.....	215 00	188 00

ED

CABLE

Price per 100 ft. of Cable

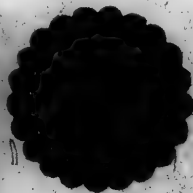
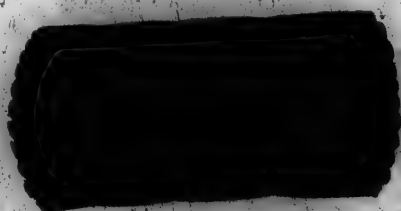
50 Wire Telephone

LIGHT LEAD, FOR AERIAL OR HOUSE USE.

No. of Conductors and Form of Cable.	BROWN AND SHARPE GAGE NO.					
	12	14	16	18	20	22
2 Flat.....	18 75	13 75	11 25	9 50	9 00	9 00
3 ".....	23 75	18 75	15 00	13 75	12 50	11 25
3 Clover Leaf.	23 75	18 75	15 00	13 75	12 50	11 25
3 Round.....	23 75	18 75	15 00	13 75	12 50	11 25
4 Square.....	28 75	22 50	18 75	16 25	15 00	13 75
4 Flat.....	28 75	22 50	18 75	16 25	15 00	13 75
4 Round.....	28 75	22 50	18 75	16 25	15 00	13 75
5 Square.....	33 75	28 75	23 75	20 00	17 50	16 25
5 Flat.....	33 75	28 75	23 75	20 00	17 50	16 25
5 Round.....	33 75	28 75	23 75	20 00	17 50	16 25
6 Flat.....	40 00	31 25	26 25	22 50	20 00	17 50
6 Round.....	40 00	31 25	26 25	22 50	20 00	17 50
7 Flat.....	42 50	31 25	27 50	23 75	21 25	18 75
7 Round.....	47 50	31 25	27 50	23 75	21 25	18 75
8 ".....	61 25	34 00	28 75	25 00	21 25	20 00
10 ".....	85 00	47 50	31 25	27 50	22 50	21 25
15 ".....	101 00	64 00	46 25	40 00	30 00	27 50
20 ".....	116 00	79 00	61 25	51 00	35 00	32 50
25 ".....	135 00	93 00	74 00	59 00	41 25	37 50
30 ".....	153 00	106 00	85 00	66 00	47 50	42 50
35 ".....	202 50	120 00	96 50	74 00	54 00	47 50
50 ".....	.....	158 00	128 00	96 00	70 00	61 25
75 ".....	.....	210 00	175 00	123 00	99 00	84 00
100 ".....	.....	250 00	210 00	148 00	122 00	102 50
125 ".....	.....	.....	.....	179 00	143 00	118 00
150 ".....	.....	.....	.....	.....	167 50	138 00
175 ".....	.....	.....	.....	.....	180 00	155 00
200 ".....	.....	.....	.....	.....	196 90	171 00

ELECTRIC LIGHT CABLE

With Armor Wire Covering



To ascertain price of Armor Cables, add the following price per foot for Armoring to the regular price of Cable catalogued in previous pages.

Diameter of cable to be Armored. Mils.	Size of Armor Wires. B. & S. G. No.	Price per foot for Armoring.
300	12	26 cents
400	12	28 "
500	12	30 "
600	10	36 "
700	10	40 "
800	9	44 "
900	9	48 "
1000	8	52 "

Discount.....per cent.

GALVANIZED STEEL WIRE STRAND



Size on Wire Gauge.	Diameter in inches.	Weight per 1000 ft.	Breaking Strain in lbs.	Price per lb.
8	1-2	520	9520	\$0 12
9	7-16	425	7910	12
10	13-32	310	6475	13
11	11-32	240	5300	12
12	5-16	200	4250	12 1/2
13	9-32	180	3311	13 1/2
14	15-64	120	2500	14
15	7-32	100	1960	15
16	3-16	75	1540	16
17	5-32	55	1155	17 1/2
18	9-64	42	889	18 1/2
19	1-8	33	720	20
20	7-64	25	560	21 1/2
21	3-32	20	...	23

Discount per cent.

TABLE OF DIMENSIONS AND RESISTANCES

-- OF --

COPPER WIRE

No. R. & L.	Diameter Mils.	Circular Mils.	Lbs. per 1000 ft. uninsulated	Ohms per 1000 ft.	Safe Carrying Capacity Amperes
0000	460.000	211600.0	800.	.04904	229.
000	409.640	167805.0	666.	.06184	189.
00	364.800	133079.9	500.	.07797	160.
0	324.950	105592.5	363.	.09827	130.
1	289.300	83694.5	313.	.12398	110.
2	257.630	66373.2	250.	.15633	94.
3	229.420	52633.5	200.	.19714	76.
4	204.310	41742.6	144.	.24858	62.
5	181.940	33102.2	125.	.31346	52.
6	162.020	26250.5	105.	.39528	43.
7	144.280	20816.7	87.	.49245	35.
8	128.490	16508.7	69.	.61849	29.
9	114.430	13094.2	50.	.79242	25.
10	101.890	10381.6	39.	.99948	21.
11	90.742	8234.11	30.	1.2608	19.
12	80.808	6529.94	24.	1.5890	15.
13	71.961	5178.39	19.	2.0037	12.
14	64.084	4106.76	15.	2.5266	11.
15	57.068	3256.76	12.	3.1860	9.
16	50.820	2582.67	10.	4.0176	8.
17	45.257	2048.20	8.	5.0660	7.
18	40.303	1624.33	6.	6.3880	6.

Safe carrying capacity improves

729.
189.
160.
130.
110.
94.
76.
62.
52.
43.
35.
30.
25.
21.
19.
15.
12.
11.

0000	No.	04	No.	38	No.	61	No.	93	No.	12	No.	15	No.	18
000	"	14	"	48	"	716	"	1032	"	1364	"	16	"	19
002	"	24	"	58	"	816	"	1132	"	1464	"	17	"	20
01	"	34	"	68	"	916	"	1232	"	1564	"	18	"	21
11	"	44	"	78	"	1016	"	1332	"	16	"	19	"	22
22	"	54	"	88	"	1116	"	1432	"	17	"	20	"	23
33	"	64	"	98	"	1216	"	1532	"	18	"	21	"	24
44	"	74	"	108	"	1316	"	16	"		"	22	"	25
55	"	84	"	118	"	1416	"	17	"		"	23	"	26
62	"	94	"	128	"	1516	"	18	"		"	24	"	27
72	"	104	"	138	"	16	"		"		"	25	"	28
83	"	114	"	148	"	17	"		"		"	26	"	29
93	"	124	"	158	"	18	"		"		"	27	"	30
102	"	134	"	16	"		"		"		"	28	"	31
113	"	144	"	17	"		"		"		"	29	"	32
122	"	154	"	18	"		"		"		"	30	"	33
132	"	16	"		"		"		"		"	31	"	34
142	"	17	"		"		"		"		"	32	"	35
152	"	18	"		"		"		"		"	33	"	36

INCANDESCENT

Sixteen Candle Power Lamps

54 Volt Lamps	75 Volt Lamps	110 Volt Lamps	220 Volt Lamps	Distance in Feet to Centre of Distribution							
				20'	25'	30'	35'	40'	45'	50'	60'
1.	1.3	1.5	3	16	16	16	16	16	16	16	16
1.5	2.	2.5	5	16	16	16	16	16	16	16	16
2.	2.6	3	6	16	16	16	16	16	16	16	16
3.	4.	5	10	16	16	16	16	16	15	15	14
4.	5.	7.	13	16	16	16	15	15	14	13	13
5.	6.	8.	16	16	16	15	14	13	13	13	12
6.	8.	10.	20	16	15	14	13	13	12	12	11
7.	9.	11.	23	15	14	13	13	12	12	11	11
8.	10.	13.	26	15	14	13	12	12	11	11	10
9.	12.	15.	30	14	13	12	12	11	11	10	9
10.	13.	16.	33	14	13	12	11	11	10	10	9
12.	16.	20.	40	13	12	11	11	10	10	9	8
14.	18.	23.	46	12	11	10	10	9	9	8	7
16.	20.	26.	53	12	11	10	9	9	8	8	7
18.	23.	30.	60	11	10	9	8	8	7	7	6
20.	27.	33.	66	11	10	9	8	8	7	7	6
25.	33.	41.	83	10	9	8	7	7	6	6	5
30.	40.	50.	100	9	8	7	7	6	5	5	4
35.	46.	58.	116	8	7	7	6	5	5	4	4
40.	52.	66.	133	8	7	6	5	5	4	4	3
45.	59.	75.	150	7	6	5	5	4	4	3	3
50.	65.	83.	166	6	6	5	4	4	3	3	2
55.	72.	91.	183	6	5	5	4	3	3	2	2
60.	79.	100.	200	5	5	4	4	3	3	2	1
65.	85.	108.	216	5	5	4	3	3	2	2	1
70.	92.	116.	233	4	4	4	3	2	2	1	1
75.	98.	125.	250	4	4	3	3	2	1	1	0
80.	105.	133.	266	3	3	3	2	2	1	1	0
90.	118.	150.	300	3	3	2	2	1	1	0	00
100.	131.	166.	333	2	2	2	1	1	0	0	00

EXAMPLE: Distribution of 16 lamps of 110 volts at a distance in column headed 110 volt lamp, find the number 50, then You will use No. 9 B. & S. wire.

NT

5

Introduction

Follow the same line to the right until the column 100 is reached

GALVANIZED IRON WIRE

Table Indicating Size, Weight,
and Length by Washburn & Moen Gauge

W. & M. Wire Gauge Nos.	Diameter Inches.	Weight of 100 feet, Lbs.	Weight of 1 mile Lbs.	W. & M. Wire Gauge Nos.	Diameter Inches.	Weight of 100 feet, Lbs.	Weight of 1 mile, Lbs.
3-0	.362	34.73	1834	18	.047	.58	31
2-0	.331	29.04	1533	19	.041	.45	24
1-0	.307	27.66	1460	20	.035	.32	17
1	.283	21.23	1121	21	.032	.27	14
2	.263	18.34	968	22	.028	.21	11
3	.244	15.78	833	23	.025	.175	9.44
4	.225	13.39	707	24	.023	.140	7.39
5	.207	11.35	599	25	.020	.116	6.124
6	.192	9.73	514	26	.018	.093	4.91
7	.177	8.03	430	27	.017	.083	4.392
8	.162	6.96	367	28	.016	.074	3.907
9	.148	5.08	306	29	.015	.061	3.22
10	.135	4.83	255	30	.014	.054	2.851
11	.120	3.82	202	31	.0135	.050	2.64
12	.105	2.92	154	32	.013	.046	2.428
13	.092	2.24	118	33	.011	.037	1.953
14	.080	1.69	89	34	.010	.030	1.584
15	.072	1.37	72	35	.0095	.025	1.32
16	.063	1.05	55	36	.009	.021	1.101
17	.054	.77	41				

PLATINUM WIRE

One inch of No. 12..... weighs about 24 grains

"	14.....	"	17.. "
"	16.....	"	10 "
"	18.....	"	8 "
"	20.....	"	3 "

One foot of No. 22..... " 26 "

"	24.....	"	20 "
"	26.....	"	14 "
"	28.....	"	8 "
"	30.....	"	6 "
"	32.....	"	4 "
"	34.....	"	3 "
"	36.....	"	1½ "

Discount..... per cent.

GERMAN SILVER WIRE

Is employed for rheostats, resistance coils, and other parts of apparatus in which high resistance is required. It possesses great permanence, and the variations in its resistance due to changes of temperature is small. Its co-efficient is 0.0004, copper being 0.0038—that is ten times less. Its resistance per metergramme is 1.85 ohm, while copper is 0.144 ohm.

Table of Weight and Resistance per 1000 feet of 18% (commercial) German Silver Wire.

No.	DIAMETER	WEIGHT.	RESISTANCE.
13	.072 in.	15.800 lbs.	22.8 ohms.
14	.064 "	12.454 "	32.7 "
15	.057 "	9.900 "	45.2 "
16	.050 "	7.619 "	60.1 "
17	.045 "	6.171 "	74.2 "
18	.040 "	4.876 "	93.9 "
19	.036 "	3.950 "	116.0 "
20	.032 "	3.121 "	146.8 "
21	.028 "	2.389 "	191.7 "
22	.0253 "	1.951 "	234.8 "
23	.0226 "	1.543 "	296.9 "
24	.0201 "	1.231 "	372.2 "
25	.0179 "	.976 "	469.4 "
26	.0159 "	.770 "	593.0 "
27	.0142 "	.614 "	746.2 "
28	.0126 "	.483 "	947.0 "
29	.0112 "	.3823 "	1198.5 "
30	.010 " "	.3047 "	1503.7 "

Discount per cent.

AMPERES PER LAMP

Volts... ..	52	75	110	220	330	440	1000	2000
Watts per C.P.	3.6	3.6	4.2	4.2	4.2	4.2	3.6	3.6
10 C.P....	.69	.48	.38	.19	.127	.095	.036	.018
15 C.P....	1.10	.76	.61	.30	.20	.15	.0576	.0288
20 C.P....	1.38	.96	.76	.38	.253	.19	.072	.036
25 C.P....	1.73	1.2	.95	.475	.32	.24	.09	.045
30 C.P....	2.21	1.53	1.22	.61	.41	.305	.115	.0575
35 C.P....	3.46	2.4	1.9	.95	.63	.47	.18	.09
100 C.P....	6.92	4.8	3.8	1.90	1.26	.94	.36	.18
150 C.P....	10.38	7.2	5.7	2.85	1.89	1.41	.54	.27

Lamps are made of higher efficiency, but data is good for wire estimates.

VOLTS LOST AT DIFF.

VOLTAGE AT LAMP ON

Volts.....	52	75	100	110	220
$\frac{1}{2}$ %....	.261	.376	.502	.552	1.10
1 %....	.525	.757	1.01	1.11	2.22
$1\frac{1}{2}$ %....	.7918	1.14	1.51	1.67	3.35
2 %....	1.06	1.53	2.04	2.24	4.48
$2\frac{1}{2}$ %....	1.33	1.92	2.56	2.82	5.64
3 %....	1.61	2.31	3.09	3.40	6.80
4 %....	2.16	3.12	4.16	4.58	9.16
5 %....	2.73	3.94	5.26	5.78	11.57
6 %....	3.31	4.78	6.38	7.02	14.04
7 %....	3.91	5.64	7.52	8.27	16.55
8 %....	4.52	6.52	8.69	9.56	19.12
9 %....	5.14	7.41	9.89	10.87	21.75
10 %....	5.77	8.33	11.11	12.22	24.44
11 %....	6.42	9.26	12.33	13.59	27.19
12 %....	7.09	10.22	13.63	14.99	29.99
13 %....	7.76	11.10	14.94	16.43	32.87
14 %....	8.46	12.20	16.27	17.92	35.81
15 %....	9.17	13.23	17.64	19.41	38.8
20 %....	12	18.75	25	27.5	55
25 %....	17.33	25	33.33	36.66	73.33

DIFFERENT PER CENT. DROP

DISTRIBUTION POINT, TOP ROW.

	400	500	600	800	1000	1200	2000
1.10	2.01	2.51	3.01	4.02	5.03	6.03	10.05
1.22	4.04	5.05	6.06	8.08	10.10	12.12	20.2
1.35	6.09	7.61	9.13	12.1	15.2	18.2	30.4
1.48	8.16	10.2	12.2	16.3	20.4	24.4	40.8
1.64	10.25	12.8	15.3	20.5	25.6	30.7	51.2
1.80	12.37	15.4	18.5	24.7	30.9	37.1	61.8
1.96	16.66	20.8	24.9	23.3	41.6	49.9	83.3
2.16	21.05	26.3	31.5	42.1	52.6	63.1	105.
2.37	25.53	31.9	38.2	51.	63.8	76.5	127.
2.59	30.10	37.6	45.1	60.2	75.2	90.3	150.
2.83	34.78	43.4	52.1	69.5	86.9	104.	173.
3.08	39.56	49.4	59.3	79.1	98.9	118.	197.
3.34	44.44	55.5	66.6	88.8	111.	133.	222.
3.61	49.43	61.7	74.1	98.8	123.	148.	247.
3.89	54.54	68.1	81.8	109.	136.	163.	272.
4.18	59.76	74.7	89.6	119.	149.	179.	298.
4.48	65.1	81.3	97.6	130.	162.	195.	325.
4.79	70.5	88.2	105.	141.	176.	211.	352.
5.11	100.	125.	150.	200.	250.	300.	400.
5.44	223.	166.	200.	266.	333.	400.	666.

WIRING TABLE FOR

Determination for the Transformer

PERCENTAGE OF LOSS.					CURRENT				
2	3	4	5	10	2	4	6	8	10
					DISTANCE IN				
	1-45	3	8	10					
				4-0	513,450	256,725	171,150	128,568	102,690
				5-0	406,875	203,438	136,607	101,850	81,375
				6-0	323,400	161,700	107,782	80,850	64,680
			4-0	2-0	256,725	128,310	85,573	61,155	51,345
			5-0	0	204,225	102,060	68,040	51,090	40,845
			6-0	1	162,225	78,750	54,075	46,590	32,445
	4-0								
		3-0	0	3	128,625	64,260	42,871	32,130	25,740
4-0		2-0	1	3	101,850	50,925	33,915	25,462	20,370
5-0		0	2	4	80,850	40,525	27,032	20,212	16,350
2-0	1	3	3	6	64,050	31,980	21,346	15,960	12,810
0	2	4	6	7	50,925	25,410	16,978	12,705	10,185
1	3	5	7	8	40,378	20,181	13,445	10,090	8,074
2	4	6	8	9	32,085	15,960	10,657	7,980	6,405
3	5	7	9	10	25,410	11,705	8,468	6,352	5,080
4	6	8	10	11	20,160	10,080	6,730	5,050	4,032
5	7	9	11	12	15,960	7,980	5,318	3,990	3,192
6	8	10	11	13	12,785	6,352	4,215	3,160	2,550
7	9	11	13	14	10,080	5,000	3,560	2,320	2,008
8	10	12	14		7,980	3,990	2,661	1,995	1,596
9	11	13			6,352	2,176	2,115	1,587	1,270
10	12	14			5,040	2,520	1,680	1,260	1,008
11	13				3,985	1,997	1,355	995	792
12	14				3,171	1,585	1,055	790	624
13					2,520	1,260	840	620	492

See Diagram in Primary Circuit section of book

PRIMARY DISTRIBUTION

System of Incandescent Lighting.

IN AMPERES.

12	14	16	18	20	22½	25	30	37½	50
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FEET TO CENTRE OF DISTRIBUTION.

85,375	73,342	64,181	57,015	51,345	46,210	41,076	35,966	28,273	21,166
67,503	58,117	50,985	45,204	40,667	36,618	32,550	28,313	22,570	16,928
53,981	46,000	40,485	35,910	32,340	29,106	25,872	22,218	17,777	13,338
42,987	36,877	32,477	28,507	25,673	23,105	20,358	17,633	14,107	10,580
34,584	29,169	25,515	22,680	20,522	18,430	16,338	14,107	11,285	8,464
27,057	23,178	20,265	18,007	16,228	13,256	13,290	11,187	8,950	6,712
21,435	18,375	16,065	14,266	12,862	11,396	10,290	8,816	7,053	5,290
16,957	14,533	12,731	11,340	10,183	9,165	8,148	7,053	5,640	4,230
13,468	11,550	10,106	8,977	8,085	7,286	6,468	5,593	4,474	3,356
10,875	9,161	7,980	7,140	6,405	5,864	5,124	4,436	3,550	2,662
8,489	7,271	6,352	5,670	5,092	4,588	4,074	3,517	2,813	2,110
6,727	5,764	5,045	4,483	4,017	3,623	3,229	2,790	2,238	1,674
5,368	4,487	3,900	3,554	3,202	2,882	2,568	2,218	1,770	1,327
4,233	3,587	3,176	2,784	2,541	2,281	2,022	1,754	1,404	1,053
3,360	2,877	2,520	2,241	2,017	1,814	1,612	1,391	1,113	855
2,828	2,423	2,105	1,772	1,596	1,386	1,276	1,105	883	682
2,267	1,906	1,580	1,407	1,290	1,121	1,012	875	700	525
1,869	1,498	1,260	1,112	1,003	904	806	694	554	425
1,533	1,159	987	867	798	725	658	592	472	362
1,257	967	807	705	635	571	508	442	352	272
1,028	792	650	558	504	458	408	352	282	212
867	671	548	465	412	372	328	282	222	172
727	567	458	385	332	292	258	212	162	122
607	477	382	312	262	222	192	152	112	82

STRANDED WIRE

O.C. Solid Core, Best Rubber Covered
(BRAIDED)

No. 0000 B. & S. \$800 00 per 1000 feet.

"	000	"	.....	680 00	"	"
"	00	"	.....	510 00	"	"
"	0	"	.....	430 00	"	"
"	1	"	.....	330 00	"	"
"	2	"	.....	290 00	"	"
"	3	"	.....	230 00	"	"
"	4	"	.....	190 00	"	"
"	5	"	.....	160 00	"	"
"	6	"	.....	130 00	"	"
"	8	"	.....	100 00	"	"
"	10	"	.....	70 00	"	"
"	12	"	.....	50 00	"	"
"	14	"	.....	40 00	"	"

Discount **10** per cent.

TWIN FIXTURE WIRE

Two Solid Core "C.C." Rubber Covered Wires laid parallel, and taped with best black Para tape, making a superior twin wire for use inside metallic tubes.

Two, No. 10, B. & S. Gauge.....\$13.00 per 100 feet.

"	"	12	"	"		10.00	"	"
"	"	14	"	"		7.25	"	"
"	"	16	"	"		6.55	"	"
"	"	18	"	"		5.80	"	"
"	"	20	"	"		7.25	"	"

Discount.....**30**.....per cent.

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